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NRO REVIEW COMPLETED

28 ikmomber 1962

EXCRAFOLK PUR : The Becord

JUSINIT

: Status - GEART Bankes Fain Fael

Control Mlot Lot Program

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1. Reference resorandus defined and presented status of subject progress as of 16 Howember 1962. This report based upon a visit to on 27 November "updates" the information contained in reference report and presents status as of 27 Reventor 1962.

- 2. (a) The first central of embject program, which is number 19 tentatively tergeted for the first Describer delivery engine number 20%, has necessfully emploted the hot fuel test. Pending successful completion of final cold fund calibration, this unit is acheduled for delivery to Hartford on 1 December 1962.
- (b) A summery of Attachement 1 which presents detailed status of subject progress as of 27 Howenber 1962 indicates the following status charge since 16 Sovember 1962:

Status	Hundrey of Links					
	13/04/82	17/31/23				
Pinished all test and ready for delivery	G	Ö				
through bet test	O	Ä				
Co hot test		*				
On cold test prior to bot test	3	7				
In final assembly	3	4				

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	11/16/2	DESTA
Paintication prior to final assembly		3*
Month-up to engine 203)	1	Ó
		China and Addison Color
Total Units	16	16

while master reflects controls in the pilot lot progress only. Fourteen additional follow-on waits not jet part of the progress are also in fabrication as explained in paragraph 3(b).

Preliminary component testing is exhaustisting the worthiness of incorporating allows plated speed governor serve can show and has eliminated somel appeal governor serve can show because of expensive monel thermal expension properties.

(c) Attachment 2 summarises for convenience the rejor problems and setlone reflected on Attachment 1.

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⁽a) Complete backup bardware for all engineering changes reflected in Attachment I for all controls in the pilot lot program was not in offect but now is being strongly evaluated as of 27 Movember. This evaluation deals with all observes not already scheduled for incorporation on all 16 pilot lot units. Hardware less time appears to be the erax of this evaluation as to determining which units should be backed up now. A ground rule has been tentatively established which dictates that for changes requiring equal to or less than 60 days hardware less time, a backup for each change shall be piscond for at least all 16 units. For changes requiring greater than 60 days hardware less time, backups for each change shall be piscond for all 16 units plus as many followers each change shall be piscond for all 16 units plus as many followers units required in order to assure having the backup available should upon pospletion of this determination.

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(b) Production units following the pilot lot progress are continuing through farmiculine and upon completion parts will be bold in finished stores prior to assembly. As a pilot lot unit remains delivery, a follow-on unit will replace it in the pilot lot progress. For instance, the delivery of unit 26 as a method for origina 20% has been replaced by unit 35 into the second block of eight. The progress is now of a 7/9 configuration.

The 15th unit is now the latest or newest unit in the progress and a tentative Pebruary delivery. Pollow-on units number 36 through 49 now in fabrication are scheduled to finished stores prior to assembly from 30 Bowenter to 19 Describer respectively. Lead time from starting assembly to delivery has been running from 6 to 3 weeks. On this besis, units 36 through 49 will have from 5 to 10 meets evaluable for assembly and tout in order to follow number 35 in late Pebruary.

(c) There are four controls in the pilot lot progres basing the "T" can embeddle which is not desirable for use with the "JU" efterburner. They are numbers 16, 15, 22, and 25. Unit 25 on bot test new is tentatively scheduled for Florida. Every effort will be made to incorporate the desired "A" case into units 16, 15, and 22 new on cold test if delivery is not seriously compressed further. Preliminary estimates indicate a 3 to 4 day delay for each unit to rease the charge if calibration is not too far advanced. This possibility is new being evaluated by the property in the little of the charge if an expenses in the charge if an expenses in the possibility is new being evaluated by the charge in the charge of the charge of the charge of the charge of the charge in the charge of the charge of

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(d) The writer is convinced that a continuous 450° fuel temperature must be imposed on each control during hot acceptance testing in each to stisin the proper but to cold eslibration required for Each 3.2 operation. The writer is set convinced that the time at this temperature should exceed 14 bours except for those solts empountaring difficulty or performing development testing.

(a) assures that hot feel rectroulated through test rigs during acceptance testing is exemined each day for deterioration. At present, 2200 galloss per month is removed and replaced by fresh fuel. Change exemination is being initiated.

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(f) Vanctime which has been used during assembly of scale only bas required in deposits and has been replaced with a Dow-Commiss Cilicons which is policils in the fuel.

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DD/OGA
Distribution 1
1-DD/R
2-AD/SA
3-C/DD/CSA
425-DD/CSA
6-TAES/OSA
7-AFCIG-5
6-RD/OSA
9-DD (Chrono)

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Attachment 1 1967-62

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ZARO O PROMUM PROMERSO MADE DEL CAMPAL SURTA ACOR EN SU SU SER SER A 1962

Stret Block of 7 Date				-	4					-
Production Serial Number		25	- 2	16,		2(*********	
		164. 2584.	Cold Test	Cold Tops	Cold Test	Codel Toss	Cold Dest	Through Not. Ten		
Regions lug Action/Images	Change Type									
 Pertial speed governor servo/speed governor pilot valve reinspection check list and log. 	Durability	**************************************	X	gr K k		2	2	Z		
2. Speed governor bearing enti-rotation link.	Durchility		70	I	X	ž.	X	I		
 Missetral elegrance speed governor pilot raive desper to bore 	Dunability		*** 61-	*	Ĭ.	3 .	X	e a		
4. Inlet temperature surso platen lesinge check.	Accuracy	X	ngili Min	X	Ľ	X	z	X		
5. Incorporate 18 "Y:" engineering changes.	Assumery				X	Ä				
Sport Black of S Palts				*						
Production Serial Super	Popular de mari delegio de la 1800 de processo		3	A		24		1	. 20	35
Dena 2444		Pab la- tions / any	Pado No- A special Assets	Pirel Assy	Plas) ARKI	Cold Post	/Lnel /Apr	Ainei Agay	Cold Deat	740 30- (323 140)
Engineering Action/Changes:	Change Type									
1. Pull speed governor servo/speed governor pilot valve reinspection check list and log.	Charactlity	%	*!!** \$5.4	W.	*	nie Nie	*	X	1	ï

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Mendio via Control System

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Second Neck of 9 bulls	-		2		4					2
Production Serial No.				21	20	24	. 32	31	20_	35_
2. Speed governor bearing anti-rotation link.	Durebillity	1	T.A.	154	-	I.	ř.	X	Ã	7
3. Longor hand apider (pillet valve support).	Combillity	Z.	I	()	()					
4. Homel apped governor servo our above.	Distribulity	Tinks	change altr	distincted from	a ji2k and	M because	of expens	rive there	al expan	mion.
5. No piaton rings on speed governor serve one shoes.	Denistity			*	I					
6. Silver plated speed spropser serve can shoos.	Dereidlity	Z	X			(4)	(*)			
7. Incorporate 12 "Yes engineering changes.	According	x	X	Ä	x	7.	X.	Z.	X	L
3. 50% mornium inlet temperaturo pilot valve.	Accused;	X	*	()	()					
9. Inlet temperature servo pietos leskage check.	Administra	x	I	24	X	X	Ţ	Z	Z	X
10. Thick reset link.	Aperanay	K	Ž,	X	X					X
11. Yested spring/disstal package.	Accuracy	X	X	I	x					I
12. Lucas speci governor firball pla.	According	Z	x	R	X	X	x	X	X	X
13. Tellon decreus replace piston ringo on speci- indegrating piston.	Academics	¥.	I							

MMIT I - Indicator change traceporation.

^{() -} Indicates change chindrated because of hardstee lead time (15 fee, produce) incompatible with control schedule.

^{(*) -} Indicator burdene for this change being bald as backup for this control.

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TAIN PULL CONTRAL

FILTE MADE SA SECTIVE ACTIONS

A. IMMULIII

- (1) Speed governor more was and scientist
 - a. Talka shittes to fuel.
 - b. Speed governor servo sheek list.
 - e. No pleton ringo.
 - d. Miver plated our dues.
- (2) Spend greatmer pilot valve wear and meisure:
 - a. Tollon edditive to hel.
 - b. Spoot governor pilot valve check list.
 - c. Lenger land spider.
 - d. Speed governor pilot valve bearing unti-rotation link.
 - o. Dismotral clearance speed covernor pilet valve damper to borne

3. ACCIDANT!

- (1) Inlet temperature serve shiftes
 - is. It charges.
 - b. 90% ammilia inlet tomperature pilot valve.
 - o. Inlet temperature serve lonkage check.
- (2) Pullair ratio linkage skifter
 - a. Y. chrogos.
 - b. Thick rount link.
- (3) Hot walfter
 - a. Ye charges.
 - b. Tested spring/of-estal package.
- (h) Speed/scorls area system improvements:
 - e. It changes.
 - be Loose flynell plane.
 - c. Telles disverses on integrating platent.

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